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REMARKS

In response to the Office Action dated August 1, 2006, the Advisory Action dated October 31, 2005, and the Panel Decision dated February 17, 2006, claims 1-25 have been canceled without prejudice or disclaimer and new claims 26-49 have been added. Support for the addition of the new claims can be found in the specification and figures as originally filed. Reconsideration of the outstanding rejection in the present application is respectfully requested based on the following remarks.

Obviousness Rejection of Claims 1-11 and 14-24

At page 4 of the Final Office Action, claims 1-11 and 22-24 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Keith (U.S. Patent No. 5,493,514) in view of Youn (U.S. Patent No. 6,466,623). At page 8 of the Final Office Action, claims 14-21 were rejected under 35 U.S.C. Section 103(a) as being unpatentable over Keith in view of Chen (U.S. Patent No. 6,259,741). The Advisory Action and Panel Decision affirm these rejections. These rejections are respectfully traversed.

In an effort to advance the present application, claims 1-11 and 14-24 have been canceled without prejudice or disclaimer, thereby obviating these rejections. Reconsideration and withdrawal of these rejection therefore is respectfully requested.

Addition of New Claims 26-49

New claims 26-49 have been added. New claims 26-49 are directed to subject matter similar to the subject matter of canceled claims 1-25. Further, new claims 26-49 clarify certain aspects of the present application that were misinterpreted by the Office in view of the prior claims 1-25.

New claim 26, from which claims 27-36 depend, recites the features of:

accessing a first index table comprising a plurality of entries, each entry comprising an identifier associated with a corresponding memory location storing corresponding macroblock information;

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accessing a first plurality of macroblock information in a first order based on identifiers accessed from a first subset of the plurality of entries of the first index table, wherein the first plurality of macroblock information is associated with a first source macroblock and includes motion vector and quantization information; and generating a first estimated destination motion vector based on the first plurality of macroblock information.

None of the cited references disclose or suggest, individually or in combination, the particular combinations of features recited by claim 26 and its dependent claims. To illustrate, none of the cited references disclosure or suggest at least the features of accessing a first index table comprising a plurality of entries, each entry comprising an identifier associated with a corresponding memory location storing corresponding macroblock information or the features of accessing a first plurality of macroblock information in a first order based on identifiers accessed from a first subset of the plurality of entries of the first index table.

New claim 37, from which claims 38-40 depend, recites the features of:

storing source macroblock information for each source macroblock of a plurality of source macroblocks;
determining an index table based on a video source resolution and a video destination resolution, wherein the index table comprises a plurality of entries, each entry comprising an identifier associated with a memory location storing source macroblock information for a corresponding source macroblock; and
storing the index table.

None of the cited references disclose or suggest, individually or in combination, the particular combinations of features recited by claim 37 and its dependent claims. To illustrate, none of the cited references disclosure or suggest at least the features of determining an index table based on a video source resolution and a video destination resolution, wherein the index table comprises a plurality of entries, each entry comprising an identifier associated with a memory location storing source macroblock information for a corresponding source macroblock.

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New claim 41, from which claims 42 and 43 depend, recites the features of:

- a video input to receive source video data;
- a video input controller coupled to the video input to determine macroblock information corresponding to the received source video data, wherein the macroblock information includes motion vector and quantization information;
- a first memory controller coupled to the video input controller to store a plurality of source macroblock information corresponding to the source video data at corresponding memory locations; and
- an index table generator having an input to receive a size indicator of a destination image and an output to provide data representative of an index table identifying a first portion of the plurality of source macroblock information to be used to generate a first destination source vector, wherein the index table is based on the size indicator of the destination image.

None of the cited references disclose or suggest, individually or in combination, the particular combinations of features recited by claim 41 and its dependent claims. To illustrate, none of the cited references disclosure or suggest at least the features of an index table generator having an input to receive a size indicator of a destination image and an output to provide data representative of an index table identifying a first portion of the plurality of source macroblock information to be used to generate a first destination source vector.

New claim 44, from which claims 45-48 depend, recites the features of:

- means for accessing a first index table comprising a plurality of entries, each entry comprising an identifier associated with a corresponding memory location storing corresponding macroblock information;
- means for accessing a first plurality of macroblock information in a first order based on identifiers accessed from a first subset of the plurality of entries of the first index table and wherein the first plurality of macroblock information is associated with a first source macroblock and includes motion vector and quantization information; and

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means for generating a first estimated destination motion vector based on the first plurality of macroblock information.

None of the cited references disclose or suggest, individually or in combination, the particular combinations of features recited by claim 44 and its dependent claims. To illustrate, none of the cited references disclosure or suggest at least the features of means for accessing a first index table comprising a plurality of entries, each entry comprising an identifier associated with a corresponding memory location storing corresponding macroblock information or the features of means for accessing a first plurality of macroblock information in a first order based on identifiers accessed from a first subset of the plurality of entries of the first index table.

New claim 49 recites the features of:

accessing a first index table;

accessing a first plurality of macroblock information in a first order at a video decoder to generate a first decoded image, wherein the first order is based upon the first index table and the first plurality of macroblock information is associated with a source macroblock;

processing the first plurality of macroblock information to generate a first estimated destination motion vector;

accessing a second index table;

accessing a second plurality of macroblock information in a second order at the video decoder to generate a second decoded image, wherein the second order is based upon the second index table and the second plurality of macroblock information is associated with a source macroblock;

processing the second plurality of macroblock information to generate a second estimated destination macroblock information; and

generating a first macroblock based on the first estimated destination vector and a second macroblock based on the second estimated destination vector, wherein the first and second macroblocks are to be displayed simultaneously.

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None of the cited references disclose or suggest, individually or in combination, the particular combinations of features recited by claim 49 and its dependent claims for at least the reasons identified by the Final Office Action with respect to claim 12.

Conclusion

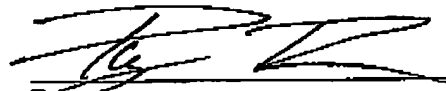
The Applicants respectfully submit that the present application is in condition for allowance, and an early indication of the same is courteously solicited. The Examiner is respectfully requested to contact the undersigned by telephone at the below listed telephone number in order to expedite resolution of any issues and to expedite passage of the present application to issue, if any comments, questions, or suggestions arise in connection with the present application.

The Commissioner is hereby authorized to charge any fees that may be required, or credit any overpayment, to Deposit Account Number 50-1835.

Respectfully submitted,

17 May 2006

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Date